|     | I (BA)01 HOH BEHO UHIB BHOH HOH BHOH HOH I AUG HOH Arthu |          |              |          |         |              |              |                 |            |          |          |                                |           | nur             | r A Smith 2851 |          |              |                 |              |  |          |          |            |          |          |              | $\perp$  |          |           |                 |           |          |
|-----|--|----------|--------------|----------|---------|--------------|--------------|-----------------|------------|----------|----------|--------------------------------|-----------|-----------------|----------------|----------|--------------|-----------------|--------------|--|----------|----------|------------|----------|----------|--------------|----------|----------|-----------|-----------------|-----------|----------|
|     |  |          | √ Rejected - |          |         |              |              |                 |            |          |          | (Through numeral)<br>Cancelled |           |                 |                |          |              | Non-Elected     |              |  |          |          |            | A        | Appeal   |              |          |          |           |                 |           |          |
|     |  |          | =            | Allowed  |         |              |              |                 | Restricted |          |          |                                |           |                 |                |          | ı            | 1               | Interference |  |          |          | 0          |          | Objected |              |          |          |           |                 |           |          |
|     | Cir  | aim      | Date         |          |         |              |              |                 |            | Claim    |          |                                |           |                 |                | Date     | _            |                 |              |  |          | aim      | _          |          | Date     |              |          |          |           | $\neg$          |           |          |
|     | _ Cic  |          |              | Т        | _       |              | T            |                 | Т          | $\dashv$ |          | Oi.                            | Г         | Н               | T              | $\top$   | Date         | Ī               |              | П  | $\dashv$ | <u>-</u> | 1          | ┢        | П        |              |          |          | Ī         | Т               | Γ         | $\Box$   |
|     | Final  | Original | 10/29/04     |          |         |              |              |                 | -          |          |          | Final                          | Original  |                 |                |          |              |                 |              |  |          | Final    | Original   |          |          |              |          |          |           |                 |           |          |
|     |  | 1.       | 1            |          |         | 工            |              |                 |            |          | -        |                                | 51        |                 |                |          |              |                 |              |  |          |          | 101        |          |          |              |          |          |           |                 |           |          |
|     |  | 2        | 1            | 4        | 4       | - -          | ╄            |                 | 4          | _        |          |                                | 52        | $\vdash \vdash$ | _              | +        | ╄            | -               |              |  | 4.5      | <u> </u> | 102<br>103 | <u> </u> | Н        |              |          |          | _         | ⊢               | ┞╌        | Н        |
|     | -  | 3        | 1            | $\dashv$ |         |              | ╁            | H               | $\dashv$   | $\dashv$ | ;j       |                                | 53<br>54  | $\vdash$        | - -            | ┿        | ╁            | Н               | _            | $\vdash$   | -        | ├─       | 103        | 1        | Н        |              |          |          |           | $\vdash$        | ╁         | Н        |
|     | -  | 5        | 1            | $\dashv$ | +       | +            | +            | $\vdash$        | 十          | $\dashv$ | - 1      |                                | 55        | $\vdash$        | +              | +        | +            | H               |              | $\vdash$   | ٦,       | -        | 105        |          | Н        |              |          |          |           |                 | Н         | $\vdash$ |
|     |  | 6_       | V            |          |         |              |              |                 |            |          |          |                                | 56        |                 | 士              | 工        |              |                 |              |  |          |          | 106        |          |          |              |          |          |           |                 |           |          |
|     |  | 7        | ١            |          |         |              |              |                 |            |          | ida<br>L |                                | 57        |                 |                |          | $oxed{oxed}$ |                 |              |  |          |          | 107        |          |          |              |          |          |           |                 | Ш         | Ш        |
|     | <u> </u>   | 8        | 1            | _        | _       | +            | _            | Н               | _          | 4        | , f)     |                                | 58        | Н               | +              | +        | ╀-           |                 |              |  |          | <u> </u> | 108        | _        | $\vdash$ | _            |          | _        |           | H               | $\vdash$  | Н        |
|     |  | 10       | 1            | -        | +       | ╁            | ╁            | $\vdash$        | $\dashv$   | $\dashv$ | 10       |                                | 59<br>60  | $\vdash$        | +              | ╫        | ╁            | $\vdash \vdash$ |              |  |          | -        | 109        | $\vdash$ | $\vdash$ | -            |          | _        | -         | ├─              | Н         | Н        |
|     | <u> </u>   | 11       | i            | +        | +       | +            | +            | $\vdash$        | ┪          | 寸        |          |                                | 61        | $\vdash$        | +              | +        | +            | H               |              | <del>                                     </del> | -        |          | 111        |          | -        |              |          |          | H         | $\vdash$        | Н         | $\vdash$ |
|     |  | 12       | V            |          |         |              |              |                 |            |          | 1        |                                | 62        |                 |                |          |              |                 |              |  |          |          | 112        |          |          |              |          |          |           |                 |           |          |
|     |  | 13       | 1            | $\Box$   | $\perp$ | $\perp$      |              | П               | $\perp$    | _        |          |                                | 63        |                 | $\perp$        | $\perp$  | $\perp$      |                 |              | Ш  |          |          | 113        | L.       |          |              |          |          | _         |                 |           |          |
|     | <u> </u>   | 14       | 1            | -        |         | +            | ├            | $\vdash \vdash$ | 4          | 긕        |          |                                | 64<br>65  | $\vdash$        | 4              | +        | ╀            | $\dashv$        |              | $\vdash$   | - 9      | <u> </u> | 114<br>115 | _        | Н        | _            | _        |          | <u> </u>  | ├-              | Щ         |          |
|     |  | 16       | 1            | $\dashv$ | +       | +            | +            | H               | +          | $\dashv$ | 9        |                                | 66        | $\vdash$        | +              | +        | ╁            | $\vdash$        |              | $\vdash$   | -49      |          | 116        |          |          | $\dashv$     |          |          | -         | ├─              | Н         |          |
|     |  | 17       | H            | $\dashv$ | +       | +            | $\vdash$     | $\vdash$        | +          | -        |          |                                | 67        | $\vdash$        |                | +        | -            |                 |              |  |          | -        | 117        |          |          | -            |          |          | <u> </u>  | -               | Н         |          |
|     |  | 18       |              |          |         |              |              |                 |            |          |          |                                | - 68      |                 |                |          |              |                 |              |  |          |          | 118        |          |          |              |          |          |           |                 |           |          |
|     |  | 19       |              | _        |         | _            | Ŀ            |                 | $\perp$    | _        | _        |                                | _69       |                 |                |          | _            | -               |              | ŀ  | _        |          | 119        |          |          |              |          | -        | 1         | -               |           |          |
|     |  | 20       | H            | +        | +       | +            | ╁            | Н               | +          | $\dashv$ |          |                                | 70<br>71  | $\vdash$        | +              | +        | 1            | $\dashv$        | -            | $\vdash \vdash$                                  | -14      | -        | 120<br>121 |          |          | -            |          |          | <u> </u>  | $\vdash$        | $\vdash$  | _        |
|     |  | 22       | Н            | $\dashv$ | +       | ╁            | ╁            | H               | $\dashv$   | ᅱ        | .        |                                | 72        | +               | ╁              | +        | ╁            | $\dashv$        |              | -  | -74      |          | 122        |          | $\dashv$ | $\dashv$     | -        |          | -         | Н               | H         |          |
|     |  | 23       |              | 寸        | 十       | +            | T            | H               | +          | ٦,       | 1        |                                | 73        | $\vdash$        | +              | $\top$   | T            |                 | _            | $\vdash$   |          |          | 123        |          | H        | $\dashv$     | _        |          | _         | Н               | Н         | $\dashv$ |
|     |  | 24       |              |          |         |              |              |                 |            | ]        |          |                                | 74        |                 |                |          |              |                 |              |  |          |          | 124        |          |          |              |          |          |           |                 |           |          |
|     |  | 25       | $\dashv$     | _        | 4       | ╄            | ┺            | Н               | _          | _Ի       |          |                                | 75        |                 | _              | ᆚ_       |              |                 |              | $\perp \perp$                                    |          |          | 125        |          |          |              |          |          | <u>_</u>  | Ш               | Ш         |          |
|     | -  | 26<br>27 | -            | $\dashv$ | +       | +            | -            | $\vdash$        | +          | -        | h, .     |                                | 76<br>77  | -               | -              | +        | ╀            | -               | _            |  | 10       |          | 126<br>127 |          | _        | $\dashv$     | $\dashv$ |          | _         | Н               | Н         | _        |
|     |  | 28       | $\vdash$     | +        | +       | ╁            | <del> </del> | $\vdash$        | +          | -        |          |                                | 78        | +               | +              | ╁        | ╁╌           | -               |              |  | -        |          | 128        |          | $\dashv$ | $\dashv$     | $\dashv$ | _        | _         | H               | $\vdash$  | $\dashv$ |
|     |  | 29       |              | _        | +       | ╁            |              |                 | $\dashv$   | 7        |          |                                | 79        |                 | ╅              | T        | $\vdash$     |                 | _            | $\vdash$   | -        |          | 129        |          |          |              | ٦        |          | $\vdash$  | H               | $\Box$    | $\neg$   |
|     |  | 30       |              | $\Box$   |         |              |              |                 | $\Box$     |          |          |                                | 80        |                 |                |          |              |                 |              |  | ] w 3    |          | 130        |          |          |              |          |          |           |                 |           |          |
|     |  | 31       | $\dashv$     | _        | _       | 4            | L            | $\sqcup$        | $\perp$    | 4        |          |                                | 81        | $\perp$         | $\bot$         | $\bot$   |              |                 |              | $\vdash$   | - 3      |          | 131        | _        |          | _            |          |          |           | Ш               | Ш         | _        |
|     |  | 32<br>33 |              | +        | ┿       | +            | ╀            | $\vdash$        | +          | $\dashv$ |          |                                | 82<br>83  | $\dashv$        | -              | +        | -            | -               | _            | $\vdash$   | $\dashv$ |          | 132<br>133 | Н        | $\dashv$ | $\dashv$     | -        | _        |           | Н               | Н         | _        |
|     | $\vdash$   | 34       |              | ┰        | +       | +            | -            | $\vdash$        | +          | ۲.       |          |                                | 84        | +               | +              | ╁┈       | +            | -               |              |  | નેંુ     |          | 134        | H        |          | -            | -        |          | -         | Н               | Н         |          |
|     |  | 35       |              | $\top$   | $\top$  | +            | T            |                 | +          | T.       | Ì        |                                | 85        |                 | ┪              | +        | T            | 寸               |              |  | 7.3      |          | 135        | Н        | 寸        | $\neg$       |          |          |           | П               | $\Box$    | $\neg$   |
|     |  | 36       |              | $\Box$   |         |              |              |                 | $\Box$     |          |          |                                | 86        |                 |                |          |              |                 |              |  | į.       |          | 136        |          |          |              |          |          |           |                 |           |          |
|     | $\vdash \vdash \mid$                                     | 37       | -            | _        | -       |              | <u> </u>     | $\sqcup$        | 4          | 4        |          |                                | 87        | _               | 4              | 4        | $oxed{oxed}$ | _               |              |  | -64      |          | 137        |          | $\dashv$ |              |          | _        |           | Ш               |           |          |
|     | -  | 38<br>39 | -            | +        | +       | +-           | $\vdash$     | -               | +          | -        | .        |                                | 88<br>89  |                 | +              | +        | H            | -               | _            |  |          | -        | 138<br>139 | Н        | $\dashv$ | $\dashv$     | -        | $\dashv$ | _         | Н               | Н         | $\dashv$ |
|     |  | 40       | 1            | ╅        | +       | ╅╴           |              | $\forall$       | +          | ١        | : -      |                                | 90        |                 | ╁              | ╁        | H            | +               | -            |  | 1        |          | 140        | $\vdash$ | $\dashv$ | +            |          |          |           | Н               | $\vdash$  | $\dashv$ |
|     |  | 41       |              |          |         |              |              |                 |            | ]        |          |                                | 91        |                 |                | $\perp$  |              |                 |              |  | ] ]      |          | 141        |          |          | $\exists$    |          |          |           |                 |           |          |
|     | $\Box$   | 42       | $\dashv$     | $\perp$  |         | $\bot$       | $\Box$       | $\Box$          | $\bot$     | ∄.       | . [      |                                | 92        | $\bot$          | $\perp$        | Į.       |              | Ţ               |              | T  |          |          | 142        | $\Box$   | コ        | $\Box$       | $\Box$   | $\Box$   |           |                 | $\square$ | $\Box$   |
|     | $\vdash$   | 43<br>44 | $\dashv$     | +        | +       | +            | $\vdash$     | $\vdash$        | +          | 4        | ŀ        |                                | 93<br>94  | +               | +              | +        | H            | -               | _            |  |          | ļ        | 143        | Н        | $\dashv$ | $\dashv$     | -        |          | _         | $\vdash \vdash$ | $\vdash$  | $\dashv$ |
|     |  | 45       | $\dashv$     | +        | +       | +-           | +            | +               | +          | $\dashv$ | ᅡ        |                                | 95        | +               | +              | +        | H            | -               | -1           |  | -        | <u> </u> | 144<br>145 | $\vdash$ | $\dashv$ | -            |          |          | Н         | $\vdash\vdash$  |           | $\dashv$ |
|     |  | 46       | $\dashv$     | _        | _       | 1            | H            |                 | _          | 7        | 1        |                                | 96        | $\top$          | +              | $\vdash$ | H            | $\dashv$        | $\dashv$     | $\dashv$   | <b>†</b> |          | 146        |          | 7        | $\dashv$     | $\dashv$ |          | $\exists$ | $\vdash$        | $\dashv$  | $\dashv$ |
|     |  | 47       | $\Box$       | $\Box$   | $\perp$ | $oxed{\Box}$ |              |                 | $\perp$    |          | [        |                                | 97        |                 |                |          |              |                 |              |  | ].       |          | 147        |          |          |              |          |          |           |                 |           |          |
|     |  | 48       | $\dashv$     | 4        | +       | ╀-           | $\vdash$     | $\dashv$        | +          | 4.       | ŀ        |                                | 98        | +               | +              | $\perp$  | $\sqcup$     | _               | _[           | _ _  | 4.       |          | 148        | $\Box$   | $\dashv$ | $\downarrow$ | _[       |          |           | Ш               | $\Box$    | _]       |
|     | $\vdash$   | 49<br>50 | $\dashv$     | $\dashv$ | +       | +            | $\vdash$     |                 | +          | Η΄       |          |                                | 99<br>100 | +               | +              | +        | $\vdash$     | -+              | _            |  | 10.04    |          | 149<br>150 | $\sqcup$ |          | 4            | 4        | _        | Ц         |                 | $\dashv$  | _        |
| - 1 |  | 50       |              |          |         |              |              |                 |            |          | L        |                                | 100       |                 | _1_            | 1        | LÍ           |                 |              | _ I  | 1 .      |          | 130        | 1        | - 1      | - 1          | - 1      | - 1      |           | , ,             |           | - 1      |

Application No.

10/661,108 Examiner

Index of Claims

Applicant(s)

Art Unit

HIRAI, SHINYA